



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/729,985	12/09/2003	Wen-Fu Chang	0941-0876P	2753

2292 7590 04/04/2006

BIRCH STEWART KOLASCH & BIRCH
PO BOX 747
FALLS CHURCH, VA 22040-0747

EXAMINER

BENENSON, BORIS

ART UNIT	PAPER NUMBER
----------	--------------

2836

DATE MAILED: 04/04/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/729,985	CHANG ET AL.	
	Examiner	Art Unit	
	Boris Benenson	2836	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 December 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 5-8 is/are allowed.
- 6) ☐ Claim(s) 1 is/are rejected.
- 7) ☐ Claim(s) 2-4 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 09 December 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☒ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Detailed Actions

1. Preliminary amendment received on 12/09/2003 is entered.
Specification is amended.

Certified copy of Patent Application No. 91136303 filed in
TAIWAN on 12/16/2002 have not been received.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which
forms the basis for all obviousness rejections set forth in this
Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2. Claim 1 is rejected under 35 U.S.C. 103(a) as being
unpatentable over Yazı (5,350,949) in view of Barber et al.
(3,428,864). Yazı disclosed a Power Supply Interface. The device
comprises a mobile telephone (Fig.1, Pos.1) read on a main
device for data processing, a cable (4) for connecting device to
an adapter (5). A voltage protection module located inside
housing (6) supplied power to the mobile telephone "having an
operating voltage range between a maximum and a minimum
operating voltage" (Claim 1). Yazı doesn't disclose "allowing an
input voltage to be applied to main device when the input

Art Unit: 2836

voltage is between preset maximum voltage and preset minimum voltage". Barber et al. teach a Multiphase Voltage Monitoring System located between a power source read on an adapter (Pos. 10) and a load read on a main device allowing an input voltage to be applied to the main device the input voltage is between a preset maximum voltage and a preset minimum voltage. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the Power Supply Interface of Yazici with teaching of Barber et al. and limit minimum and maximum voltages applied to the device, because it will protect the mobile telephone from possible damage when it plugged into an adaptor with wrong voltage. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have terminate the cable with a plug and include a socket for connecting the cable into the mobile telephone, because it will allow convenient use of the mobile telephone as a hand held device.

Allowable Subject Matter

3. Claims 5-8 are allowed.
4. Claims 2-4 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in

Art Unit: 2836

independent form including all of the limitations of the base claim and any intervening claims.

The following is an examiner's statement of reasons for allowance:

5. Independent Claims 5 and 8 are allowable because none of the prior art of record disclose a voltage protection device wherein an input voltage from an adapter is supplied to input terminal of a first control module and outputted the input voltage to input terminal of a second control module when the input voltage is less than a preset maximum voltage in combination with the other claim limitations.

6. Claim 2 would be allowable because none of the prior art of record disclose a PDA with build in voltage protection wherein an input voltage from an adapter is supplied to input terminal of a first control module and outputted the input voltage to input terminal of a second control module when the input voltage is less than a preset maximum voltage in combination with the other claim limitations.

7. Claims 3 and 4 are dependent on Claim 2 and would be allowable if Claim 2 is allowed.

8. Claims 6 and 7 are dependent on Claim 5 and therefore allowable.

Contact information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Boris Benenson whose telephone number is (571) 272-2048. The examiner can normally be reached on M-F (8:20-6:00) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Sircus can be reached on (571) 272-2800 ext 36. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Boris Benenson
Examiner
Art Unit 2836

B.B.



BRIAN SIRCUS
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800